Contract for Geographical Information System

GIS Map Lite, Inc (the "Company") wishes to Implement a Geographical Information System (GIS) for the Starke County Board of Commissioners (the "Client") to be used by various offices within the county. The following defines the scope of products and services to be offered by the Company and the compensation to be paid by the Client.

1. **Summary:** The following is a summary of this contract. Each item is described in more detail below.
   a) The company will develop a digital map of the Client's county that will include aerial photography, topography, road centerlines, water ways, landmarks, address ranges, and bridges.
   b) The company will include on the digital map a sample 6 square mile area showing property lines and soil classifications.
   c) The company will provide and install onto 10 computers all of the necessary software required to view, query, and edit the digital map. The mapping software will also be interfaced with the client's existing 911 system.
   d) The company will keep the map up to date, provide technical support on using the software, synchronize data between users, and provide an off-site backup on a regular basis. Upgrades to the software will be automatically installed onto the Client's computers as they become available.
   e) The cost of these products and services will be $60,000 plus $1,000 per month maintenance.
   f) All information collected locally is the property of Starke County and shall not be sold without written permission of the Starke County commissioners.

2. **Initial Map and Data Development:** The finished Geographical Information System will consist of several data sets. The data conversion process consists of any digitizing, scanning, file conversion and manual manipulation required to compile the client's existing information into an integrated electronic format. All of the following data sets are included. All layers are positioned on the map to line up with each other and with the world.

   a) <u>Topography</u>: A background raster image showing 5 or 10 foot interval contour lines will be included as a layer on the map. This information will come from scanned USGS Quad maps.
   b) <u>Aerial Photography</u>: 1997 digital ortho photos will be included as a background raster image on the map. These photos will come from the USGS and have a 1 meter per pixel resolution and have been orthogonally rectified to remove relief displacement so that ground features are displayed in their true ground position.
   c) <u>Roads</u>: The centerline of all roads, streets, highways, and railroads will be identified on the map. The locations of these features will be determined by the aerial photography and the names will come from city and county maps provided by the client. It is recommended that the client also provide the company with a copy of their Master Street Address Guide, or MSAG, so that all road name spellings can be checked to exactly match those used in the client's E911 system.

d) <u>Streams, Lakes, and Rivers</u>: All Major waterways will be drawn on the map and named according to maps provided by the client. The location of any remaining creeks, streams, and ditches that are not specifically identified will be visible on the aerial photography and topography layers.

e) <u>Landmarks and Boundaries</u>: Any towns, place names, and points of interest marked on maps provided by the client will be identified on the map. The limits of each City, Township, and Commissioner district will also be included.

f) <u>Addresses</u>: Based on our on-site assessment of available source materials, the best way to indicate addresses on the map will be to mark a beginning and ending address ranges along each road between intersections. The address ranges will be enough information for the mapping software to approximate the location of any address inquired upon.

g) <u>Bridge Inventory</u>: The location of each county bridge will be pinpointed on the map based on map(s) provided by the client or other sources. Each bridge will be linked to a custom designed data sheet where detailed specifications and notes can be recorded. The company will convert or link any existing electronic data provided by the client or by INDOT into the database. Any color photographs and sketches of each bridge will also be included in the database if provided by the client.

h) <u>Property Lines Sample</u>: The company will digitize 6 contiguous square miles of the client's existing plat maps for the purpose of demonstrating exactly how the system will work for the client. This sample will include any blowup pages and subdivisions contained within the sample area. The client can select any 2 by 3 mile area of the county that represents a typical mix of urban and rural development. The company will align each digitized plat into its correct location on the finished map using visual control points on the aerial photography. The positional accuracy of all points within each platted page will be no better than the source information provided by the client and it is possible that not all lines will line up exactly with the newer digital aerial photography. The finished map will show all township and range lines, section lines, platted subdivisions boundaries, subdivision lot lines, and parcel lines.

i) <u>Soil Classifications Sample</u>: For the same sample area selected above, the company will digitize the client's existing soil maps. The company will align each digitized plat into its correct location on the finished map using visual control points on the aerial photography.

3. **Description of Software:** The Software provided with this contract is called "GIS Map Lite" version 3.6. A compiled Microsoft Access database and a runtime version of Microsoft Access is also included for each licensed user. This software and its components provide all the user interface necessary to view, query, and manipulate the map and its data.

a) The following is a summary of the functionality included in the software:
   - The software provides various zooming and panning tools to make it possible to easily view any area of the map at any scale.
   - Locate any named objects or location on the map by selecting them from an alphabetical index or by pressing the Map button from any data sheet.

- Users can query the database for a set of records matching any criteria based on any combination of field values and then show the results on the map.
- Point and click on any object on the map to view the data linked to that object (i.e. bridge, road, address, etc)
- Measure any distance or area.
- Layers can be turned on and off independently to customize the appearance of the map at each workstation.
- Import or Export data from and to other GIS applications.
- E911 interface to provide automatic pop-up map with each E911 call.
- Editing tools are included to assist in adding or changing any information.

b) Hardware Requirements. The software can be installed and ran on any computer provided by the client that meets the following minimum requirements:
- Windows 95, 98, NT or better operating system.
- 32 Megabytes of memory (128 recommended).
- 2 Gigabytes of hard disk space.
- 15" SVGA color monitor capable of displaying 16 bit color at 800 X 600 resolution or better. (21" recommended)
- Keyboard and mouse
- Modem and/or Internet Access. (required for data synchronization, backup, and support)

4. Installation and Training:

a) Use of Software: The software will be licensed for use on 10 computers located in the county and used for county government purposes only. A list of these initial 10 users must be provided to the company prior to installation. The software may be installed on a network of computers but "use" of the software is limited to those users agreed upon prior to installation

b) Setup and Training: When the project is completed company will install the software and data files into each department's existing computers and setup each workstation with a strategy of sharing data with the other departments. Note that no computer hardware is included with the purchase of this system. We will provide 24 man-hours of on site training to show each department how to use the system for their application.

c) 911 Interface: The company will interface the mapping software with the client's E911 system so that a map will automatically be displayed with each 911 call showing the location of the caller. To do this, the client's 911 provider must make available a local connection point that provides an ALI stream of data with each 911 call. The client's 911 provider may have additional charges for their part of this interface.

5. Maintenance:

a) Data Maintenance: The Company will maintain the data sets included in the Initial Map Development for the client as part of an ongoing maintenance agreement. All regular add, change, or delete requests from the client will be given to the company on paper or in some other agreed upon format. The changes

If, as a result of any claim or infringement against any patent, copyright, license or other property right, the Company is enjoined from using the Software, or if the Company believes that the Software is likely to become the subject of a claim of infringement, the Company at its option and expense may procure the right for the Starke County Commissioners to continue to use the Software, or replace or modify the Software so as to make it non-infringing. If neither of these two options is reasonably practicable the Company may discontinue the license granted herein on one month's written notice and refund to the Starke County Commissioners the unamortized portion of the license hereunder (based on three years straight line amortization commencing on the date of this Agreement) The foregoing states the entire liability of the Company with respect to infringement of any copyrights or patents by the Software or any parts thereof.

IN WITNESS WHEREOF, the parties have executed this Agreement as of this ___/___ day of _May_, 2000.

Company: **Client:**

GIS Map Lite, Inc.   **Starke County**
                                                 Board of Commissioners

By: _____   By: _____
    Rex E. Jones   Michaelene Houston

Title: _____   By: _____
       President   Dan Bau

                                                 By: _____
                                                     Kevin Kroft

Address: _____
Address: _____

         _____   _____

         _____   _____

         _____   _____